Montana Board of Oil and Gas Conservation Environmental Assessment

Operator: FX Drilling Company, Inc.
Well Name/Number: American Eagle No.4-3
Location: Lot 4 NW/4 Section 3 T34N R1E
County: Toole MT; Field (or Wildcat) East Kevin Nisku Oil Field
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Air Quality
(possible concerns)
Long drilling time : No, 10 to14 days drilling time.
Unusually deep drilling (high horsepower rig): No, 3200' TVD, Nisku Formation
test, small single derrick drilling rig will be used to drill this well
Possible H2S gas production: Yes, possible H2S, low ppms.
In/near Class I air quality area: No Class I air quality area in the area of
review
Air quality permit for flaring/venting (if productive) Yes, DEQ air quality permit
required under 75-2-211.
Mitigation:
X Air quality permit (AQB review)
Gas plants/pipelines available for sour gas
Special equipment/procedures requirements
Other:
Comments:Using small rig single derrick drilling rig to drill to 3200'
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Water Quality
(possible concerns)
Salt/oil based mud: No, freshwater and freshwater mud system.
High water table: No high water table anticipated
Surface drainage leads to live water:Closest surface drainage in an unnamed
ephemeral tributary drainage to Black Coulee. Closest surface water is a pond
within Black Coulee, about 1.25 miles to the southeast from this location.
Surface casing will be set to 300' and cemented to surface. Production casing if
set will be cemented to surface, if run
Water well contamination: No, water well contamination anticipated. Closest
water well is about 3/8 of a mile to the northwest from this location. Depth of this
stock water well is 18'. Surface casing will be set to 300' well below this water
zone.
Porous/permeable soils: No, silty bentonitic soils.
Class I stream drainage: No Class I stream drainages in the area of review.
Mitigation:
Lined reserve pit
X Adequate surface casing
Berms/dykes, re-routed drainage

Closed mud system
Off-site disposal of solids/liquids (in approved facility)
Other:
Comments:300' of surface casing cemented to surface adequate to
protect freshwater zones. Freshwater and fresh water mud systems to be used.
7" production casing will be cemented to surface, if productive.
Soils/Vegetation/Land Use
(possible concerns)
Steam crossings: No, stream crossings anticipated.
High erosion potential: No, small cut, up to 5.0' and a small fill, up to 2.8',
required
Loss of soil productivity: No, location will be restored after drilling, if
nonproductive. If productive unused portion of drillsite will be reclaimed
Unusually large wellsite: No , 300'X350' location size required.
Damage to improvements : Slight, surface is CRP land.
Conflict with existing land use/values:Slight
Mitigation
Avoid improvements (topographic tolerance)
Exception location requested
Exception location requested _X Stockpile topsoil
Stream Crossing Permit (other agency review)
X Reclaim unused part of wellsite if productive
Special construction methods to enhance reclamation
Other
Comments: Access will be over existing state paved highway, Oilmont
Highway and existing two track ranch trail. Will construct a short new road into
this location, about 600' off of the two track ranch trail. Cuttings will be buried in
the earthen reserve pit. Fluids will be allowed to evaporate. Pit will be backfilled
when dry. No special concerns
Health Hazards/Noise
nealth nazarus/Noise
(possible concerns)
Proximity to public facilities/residences: No residences within 1 mile in any
direction from this location
Possibility of H2S: Yes, slight.
Size of rig/length of drilling time: Small drilling rig/short 10 to14 days drilling time.
Mitigation:
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_X_Proper BOP equipment
Topographic sound barriers
H2S contingency and/or evacuation plan
Special equipment/procedures requirements

Other:
Comments: No concerns. Distance and topographical features
should mitigate any noise issues.
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Wildlife/recreation
(possible concerns)
Proximity to sensitive wildlife areas (DFWP identified): None identified. Proximity to recreation sites:None identified.
Creation of new access to wildlife habitat: No
Conflict with game range/refuge management: No
Threatened or endangered Species: Listed threatened or endangered species
in Toole County is the Black Footed Ferret. Candidate species is the Sprague's
Pipit. NH Tracker website lists no species of concern for this Township and
Range.
Mitigation:
Avoidance (topographic tolerance/exception)
Other agency review (DFWP, federal agencies, DSL)
Screening/fencing of pits, drillsite
Other:
Comments: No concerns, surface use is CRP private land.

Historical/Cultural/Paleontological
(possible concerns)
Proximity to known sites None identified
Mitigation
avoidance (topographic tolerance, location exception)
<pre>_ other agency review (SHPO, DSL, federal agencies) Other:</pre>
Comments:No concerns, surface use is CRP private land.

Social/Foonamia
Social/Economic (possible concerns)
(possible concerns) Substantial effect on tax base
Substantial effect of tax base Create demand for new governmental services
Population increase or relocation
Comments: Well is being drilled in the East Kevin Nisku Oil Field. No
concerns

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Remarks or Special Concerns for this site
Well is a 3200' Devonian Nisku Formation test.
Summary: Evaluation of Impacts and Cumulative effects
No long term impacts expected. Some short term impacts will occur, but can be mitigated in a short time.
I conclude that the approval of the subject Notice of Intent to Drill (does/ <u>does</u> <u>not</u>) constitute a major action of state government significantly affecting the quality of the human environment, and (does/ <u>does not</u>) require the preparation of an environmental impact statement.
Prepared by (BOGC): <u>/s/Steven Sasaki</u> (title:) <u>Chief Field Inspector</u> Date: <u>August 17, 2011</u>
Other Persons Contacted:
Montana Bureau of Mines and Geology, GWIC website (Name and Agency)Toole County water wells (subject discussed)August 17, 2011 (date)
US Fish and Wildlife, Region 6 website (Name and Agency) ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES MONTANA COUNTIES, Toole County (subject discussed) August 17, 2011 (date)

Montana Natural Heritage Program Website (FWP)

(Name and Agency)
Heritage State Rank= S1, S2, S3, T34N R1E
(subject discussed)
_August 17, 2011
(date)
If location was inspected before permit approval:
Inspection date:
Inspector:
Others present during inspection: